

Figure 1A
(Prior Art)

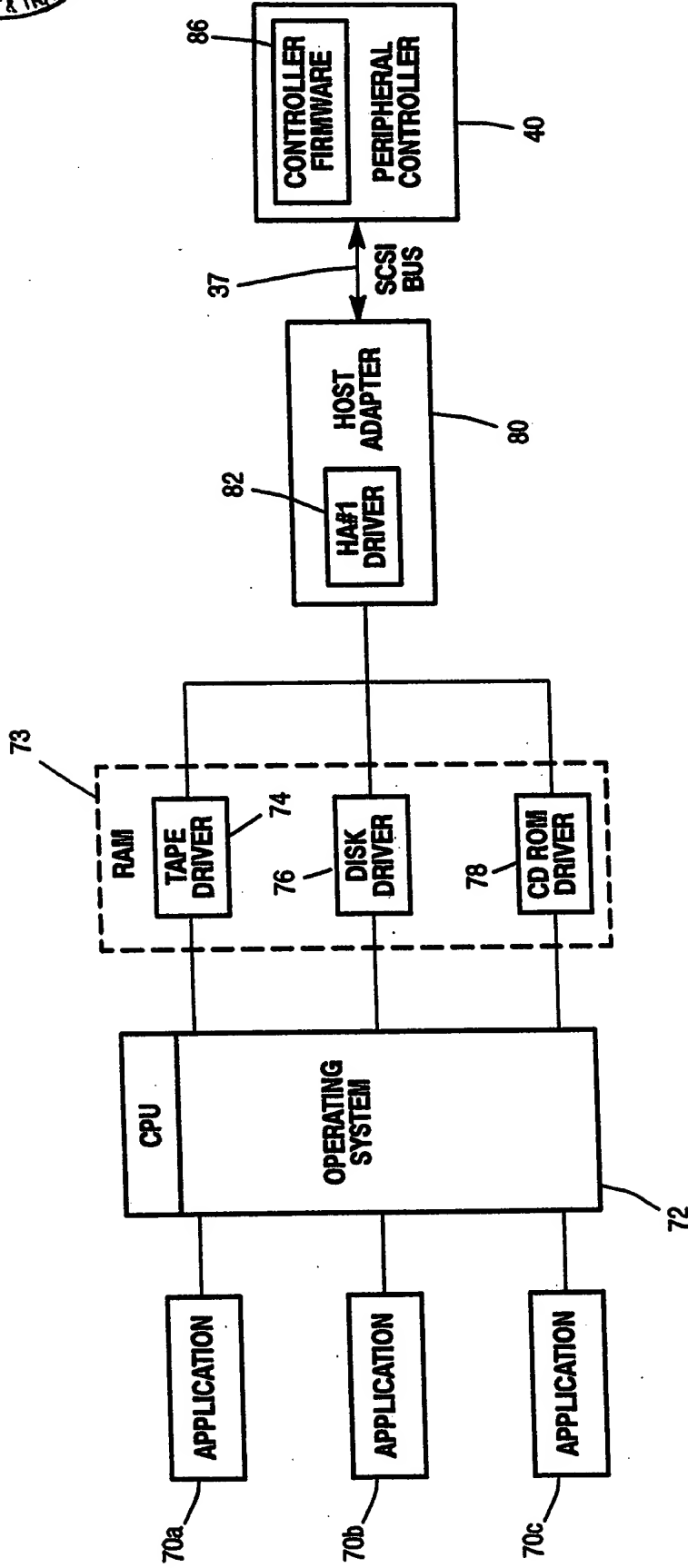
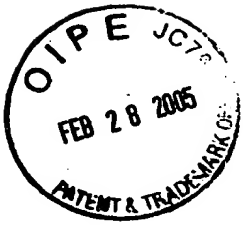


Figure 1B
(Prior Art)

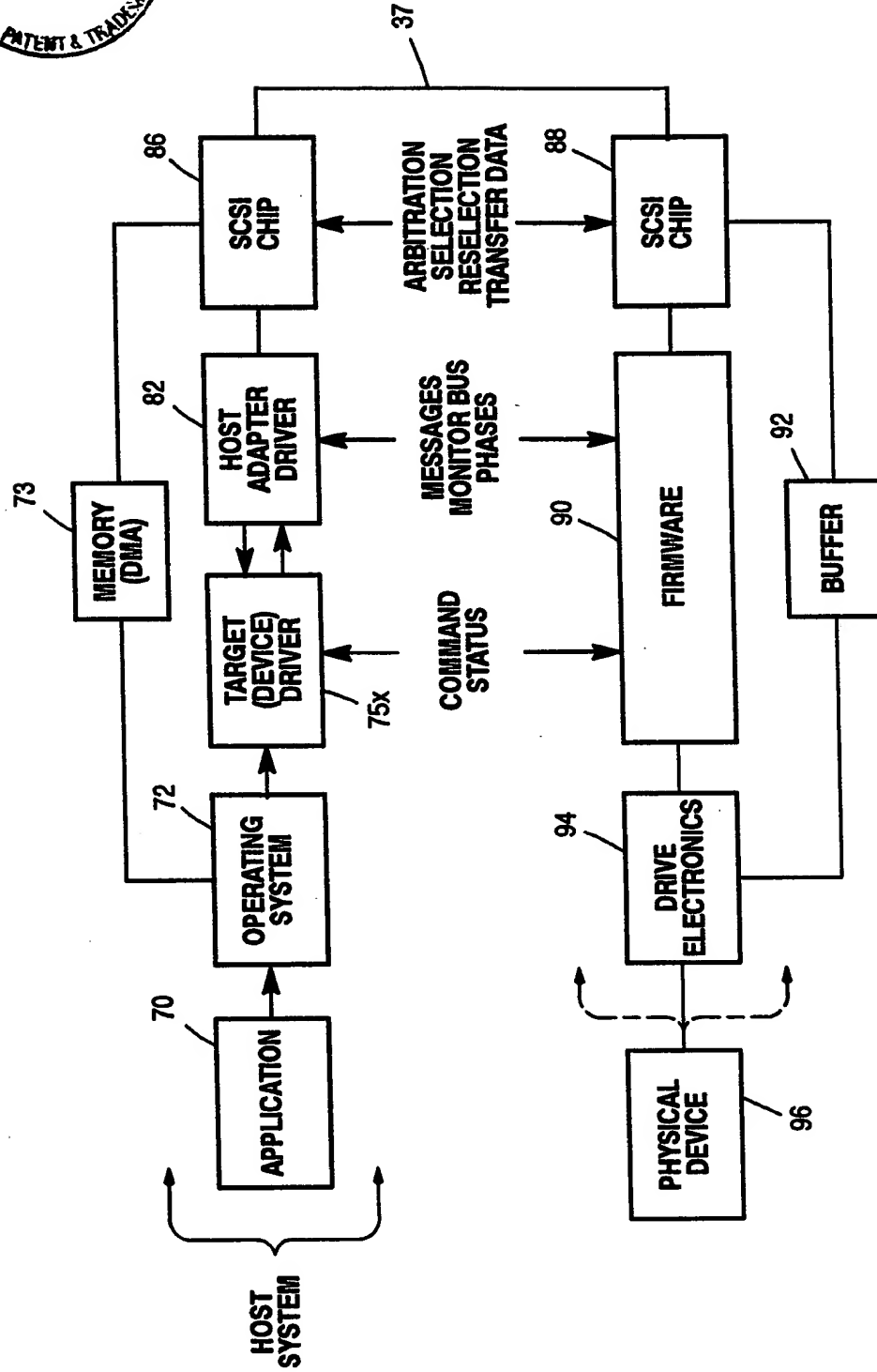


Figure 1C
(Prior Art)

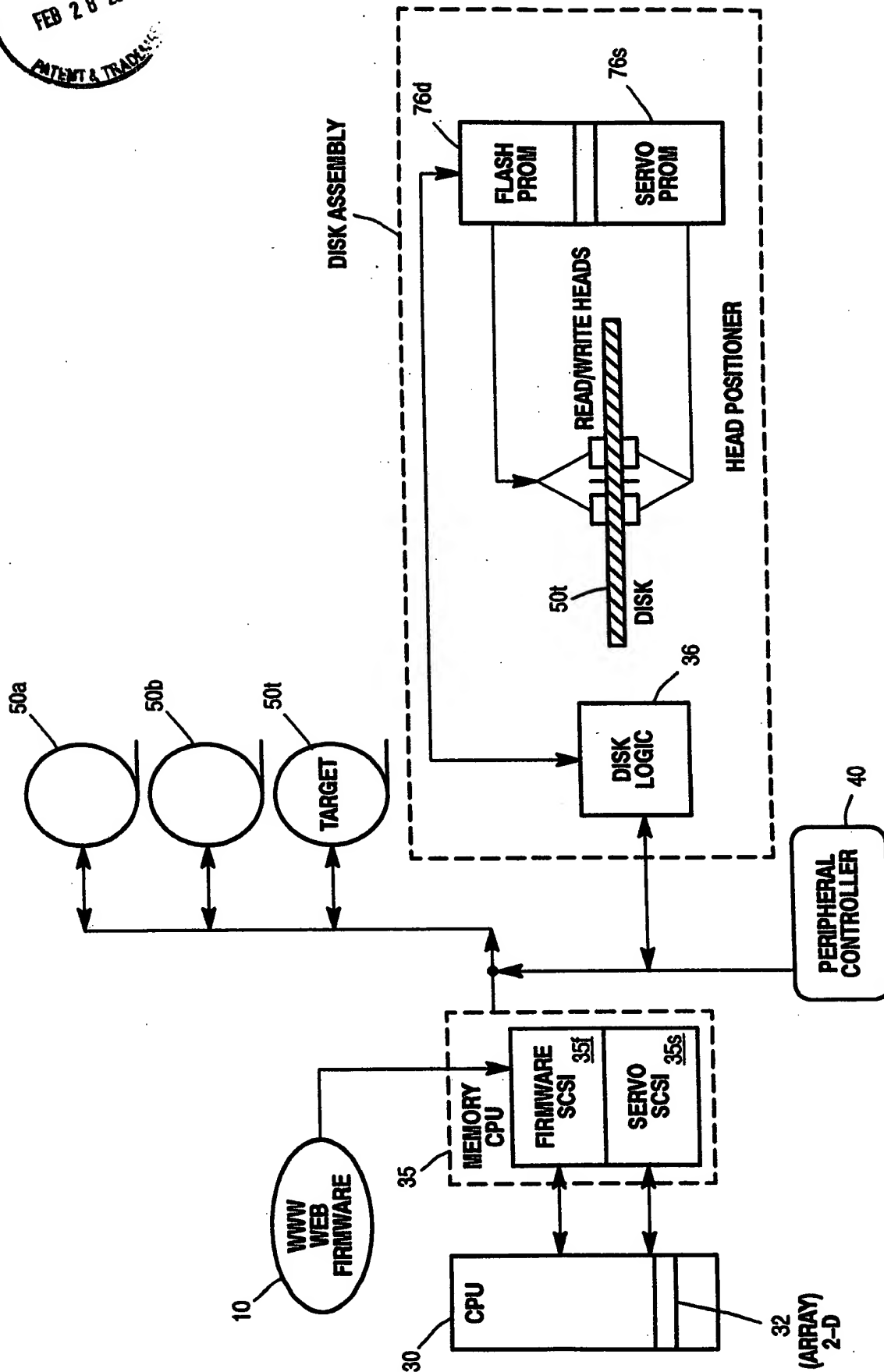


Figure 1D
(Prior Art)

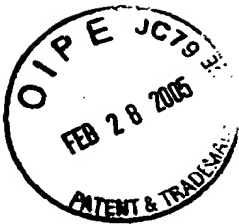


TYPICAL TWELVE-BYTE CDB

(TABLE 23)

	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0	OPERATION CODE							
BYTE 1	LOGICAL UNIT NUMBER				RESERVED			
BYTE 2	LBA = LOGICAL BLOCK ADDRESS (IF REQUIRED) (MSB)							
BYTE 3								
BYTE 4								
BYTE 5								
BYTE 6	(MSB)							
BYTE 7	TRANSFER LENGTH (IF REQUIRED) PARAMETER LIST LENGTH (IF REQUIRED) ALLOCATION LENGTH (IF REQUIRED) (LSB)							
BYTE 8								
BYTE 9								
BYTE 10	RESERVED							
BYTE 11	CONTROL BYTE							

Figure 2
(Prior Art)



WRITE BUFFER COMMAND

BIT BYTE	7	6	5	4	3	2	1	0
0	OPERATION CODE (3Bh)							
1	RESERVED				MODE			
2	BUFFER ID							
3	BUFFER OFFSET (LSB)							
4								
5								
6	PARAMETER LIST LENGTH (LSB)							
7								
8								
9	CONTROL							

Figure 3
(Prior Art)



WRITE BUFFER MODE FIELD

MODE	DESCRIPTION	IMPLEMENTATION REQUIREMENTS
000b	WRITE COMBINED HEADER AND DATA	OPTIONAL
001b	VENDOR-SPECIFIC	VENDOR-SPECIFIC
010b	WRITE DATA	OPTIONAL
011b	RESERVED	RESERVED
100b	DOWNLOAD MICROCODE	OPTIONAL
101b	DOWNLOAD MICROCODE AND SAVE	OPTIONAL
110b	DOWNLOAD MICROCODE WITH OFFSETS	OPTIONAL
111b	DOWNLOAD MICROCODE WITH OFFSETS AND SAVE	OPTIONAL

Figure 4
(Prior Art)



OPERATION CODE

BITS	7	6	5	4	3	2	1	0
BYTE 0	GROUP CODE			COMMAND CODE				

GROUP CODE FIELD

GROUP	BIT 7	BIT 6	BIT 5	NUMBER OF COMMAND BYTES
0	0	0	0	SIX
1	0	0	1	TEN
2	0	1	0	TEN (NEW IN SCSI-2)
3	0	1	1	RESERVED
4	1	0	0	RESERVED
5	1	0	1	TWELVE
6	1	1	0	VENDOR SPECIFIC
7	1	1	1	VENDOR SPECIFIC

Figure 5

(Prior Art)



**TWO DIMENSIONAL ARRAY
(MATRIX)**

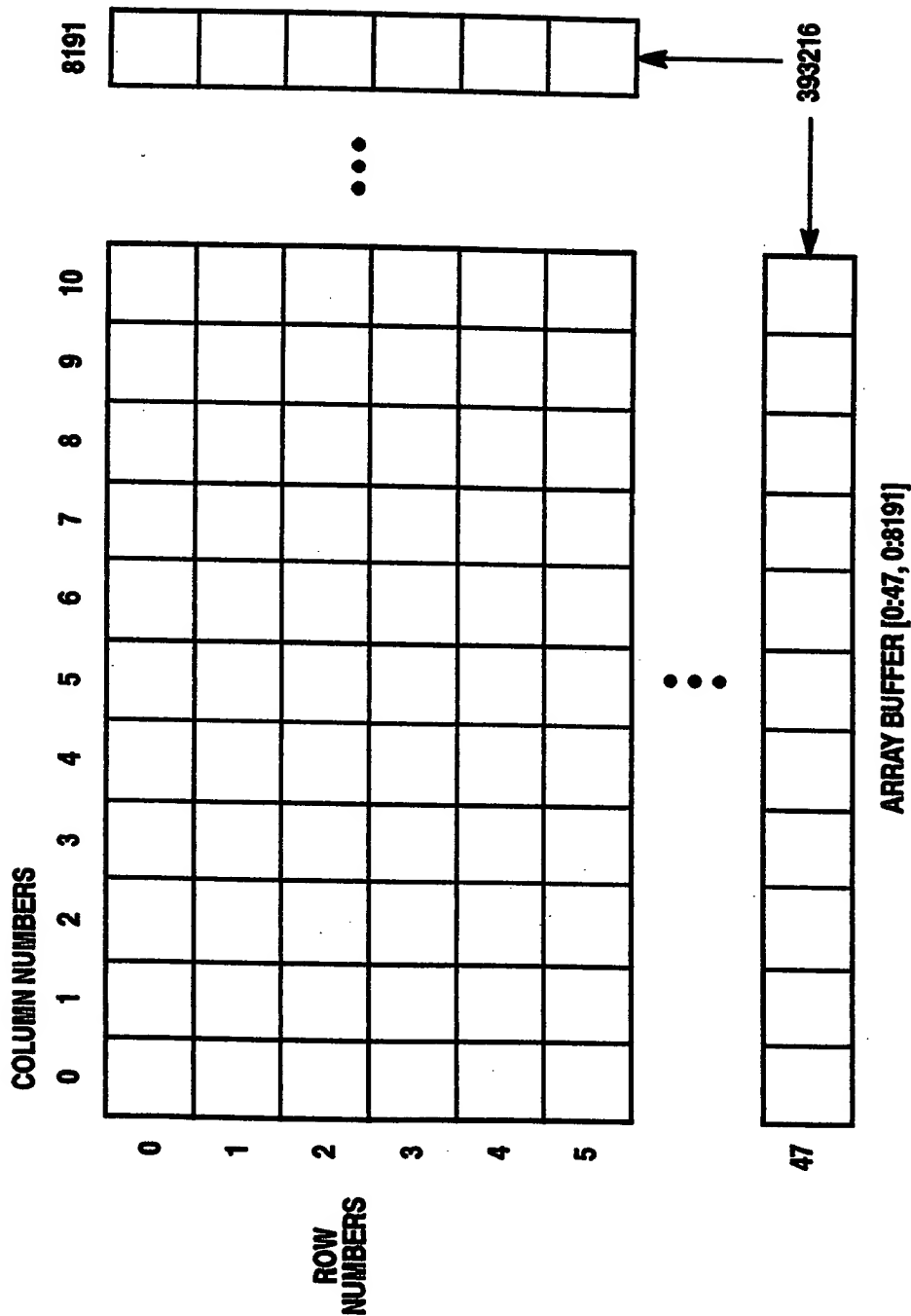
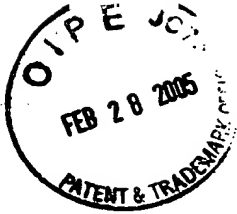


Figure 6



DFAST

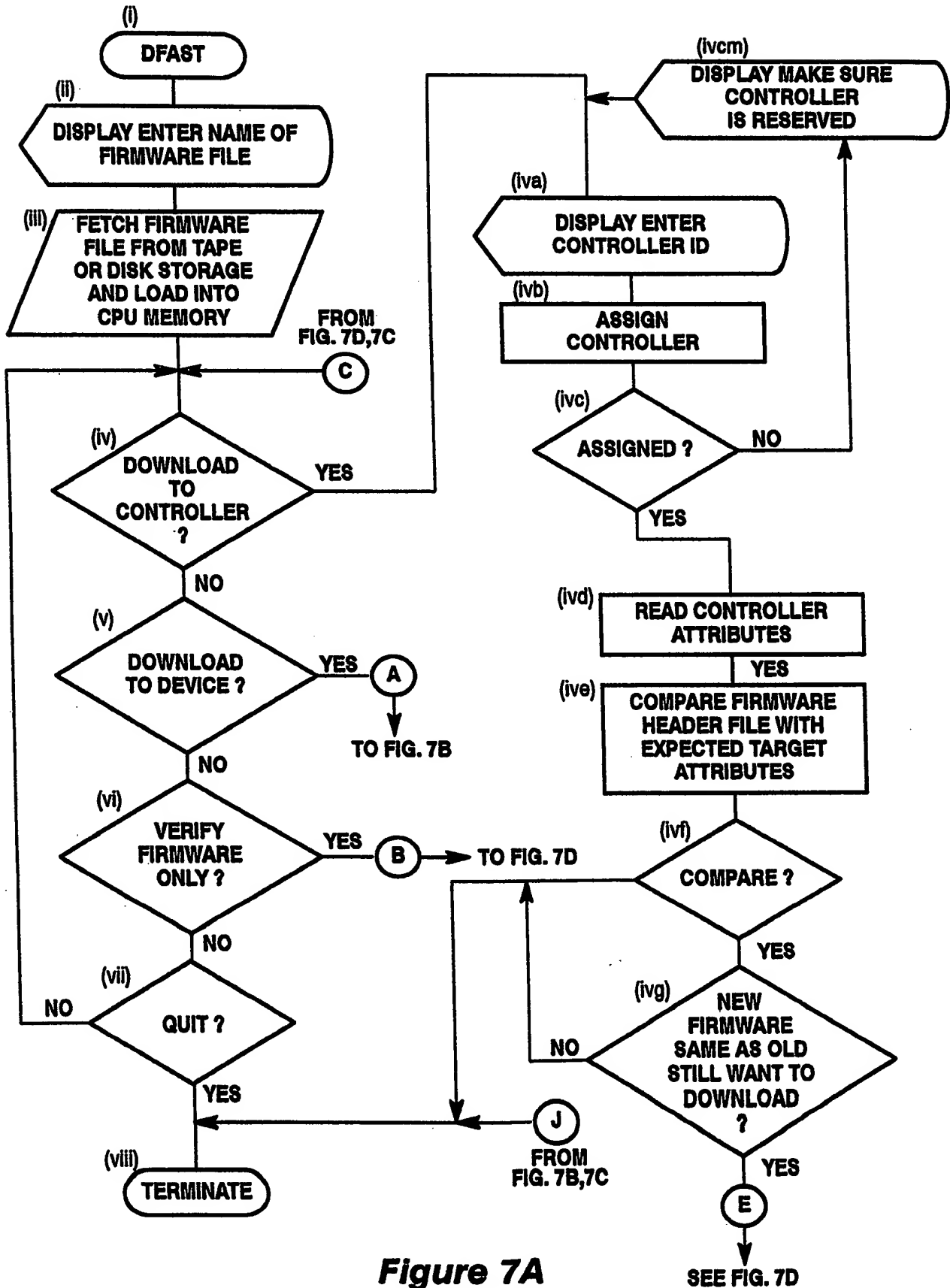


Figure 7A

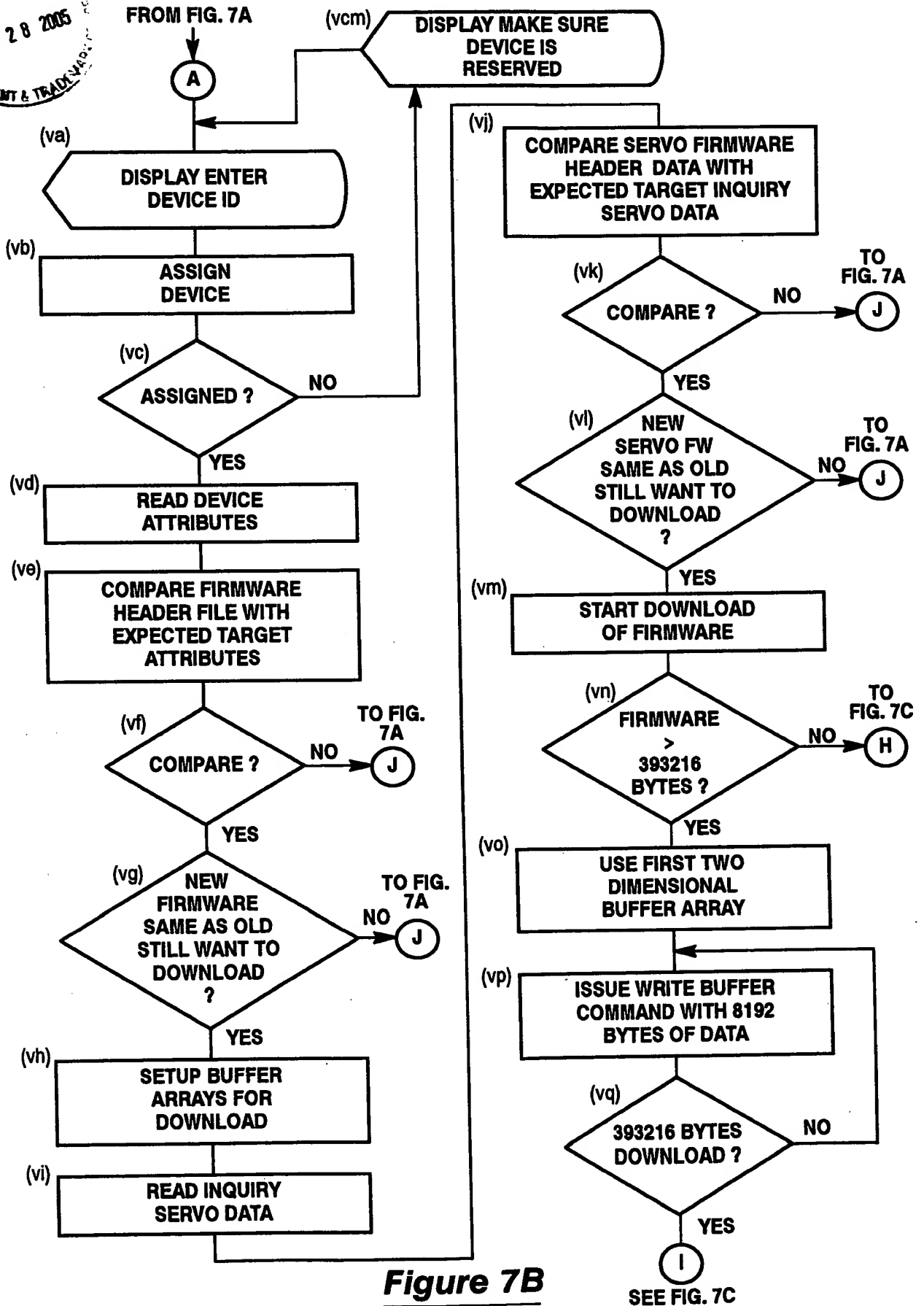


Figure 7B

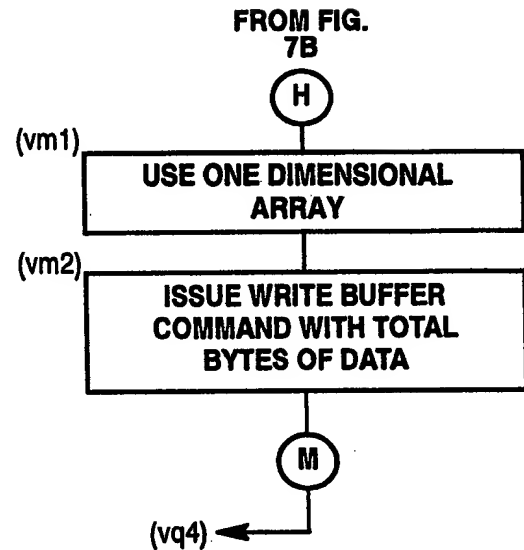
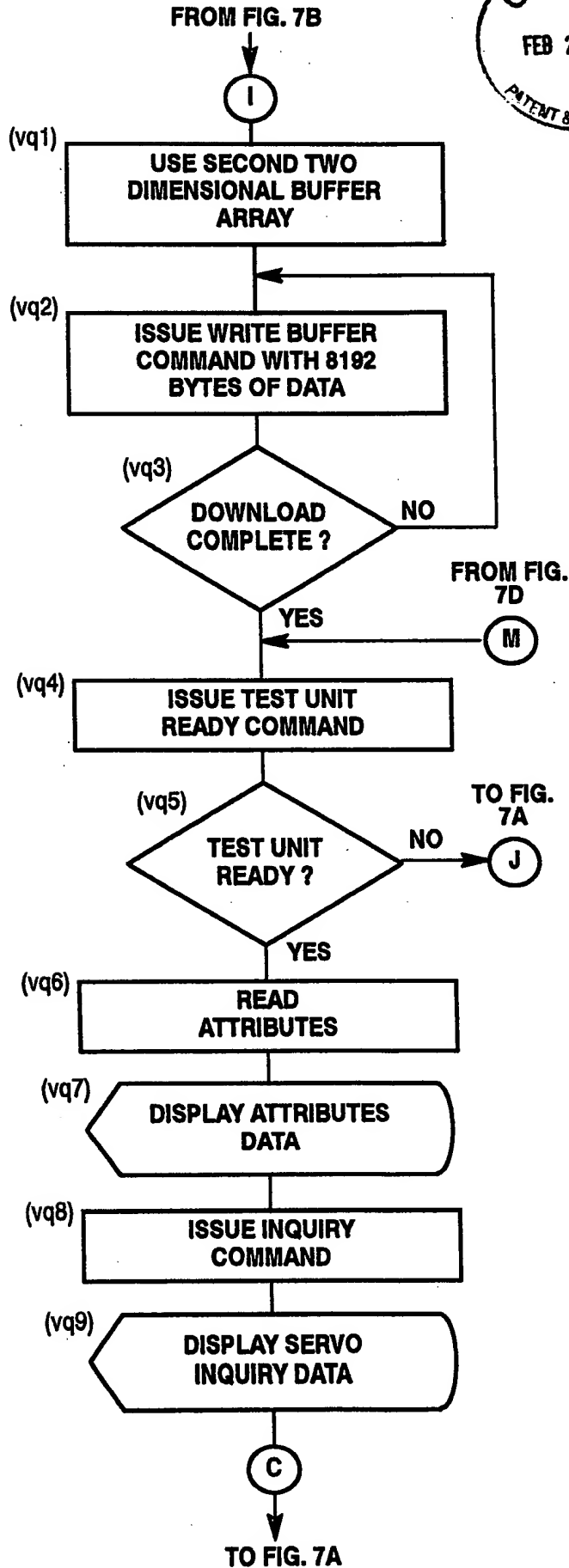
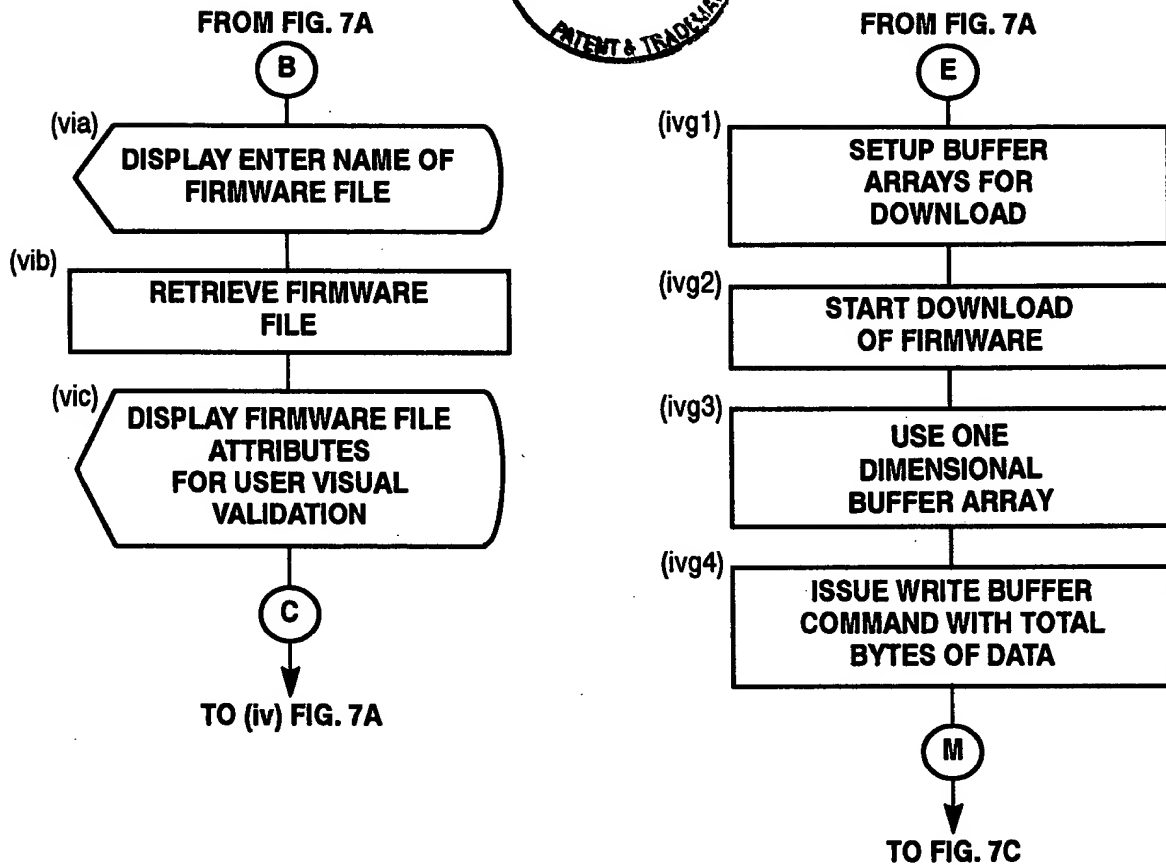


Figure 7C

Figure 7D